



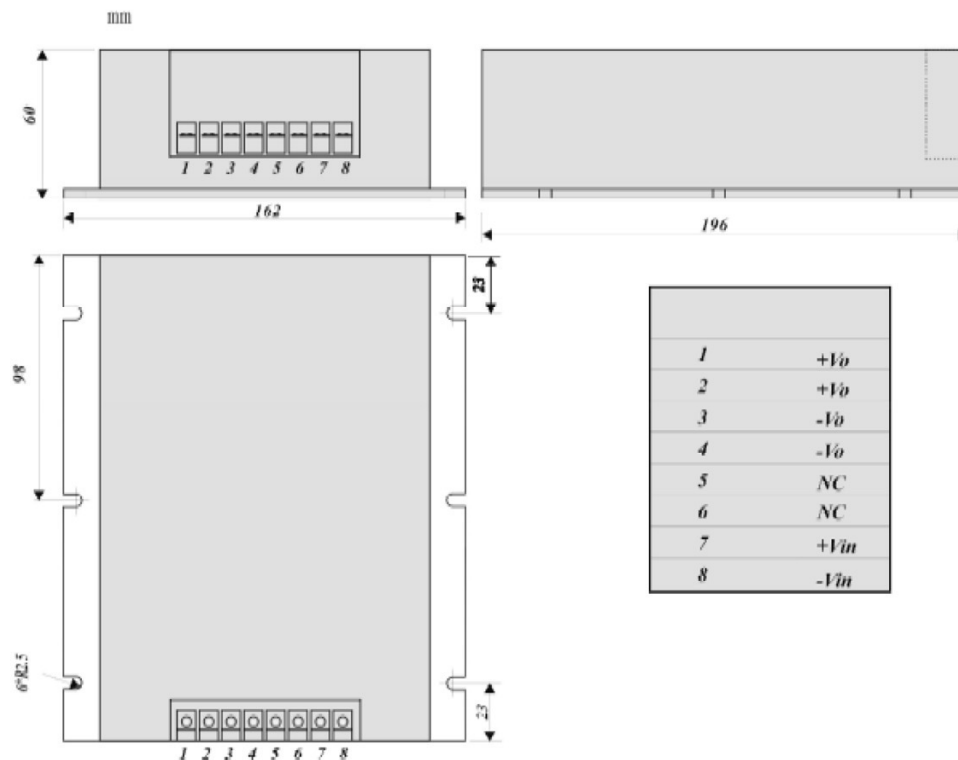
### Features

- Built-in heatsink
- High Density
- 2:1 input range
- High reliability
- Over-temp. protection
- Undervoltage lockout
- Designed for rectified 220VAC and 380VAC
- Overload protection
- Long life
- Six side metal shielding
- 1000VDC isolation
- Able to withstand high vibration and shock
- Perfectly suited for: transportation, mining, power plant, and power distribution



| Model Number    | Nominal Input | Input Range | Output Voltage | Output Current | Ripple & Noise | Effic. |
|-----------------|---------------|-------------|----------------|----------------|----------------|--------|
| VKG100-D300-S05 | 300           | 200-400     | 5Vdc           | 20A            | 50mVpp.        | 87%    |
| VKG150-D300-S12 | 300           | 200-400     | 12Vdc          | 12.5A          | 120mVpp.       | 89%    |
| VKG200-D300-S15 | 300           | 200-400     | 15Vdc          | 13.3A          | 150mVpp.       | 90%    |
| VKG250-D300-S24 | 300           | 200-400     | 24Vdc          | 10.4A          | 200mVpp.       | 91%    |
| VKG300-D300-S48 | 300           | 200-400     | 48Vdc          | 6.25A          | 400mVpp.       | 92%    |
| VKG300-D300-S15 | 300           | 200-400     | 15Vdc          | 33.3A          | 150mVpp.       | 90%    |
| VKG100-D600-S05 | 600           | 400-800     | 5Vdc           | 20A            | 50mVpp.        | 87%    |
| VKG150-D600-S12 | 600           | 400-800     | 12Vdc          | 12.5A          | 120mVpp.       | 89%    |
| VKG200-D600-S15 | 600           | 400-800     | 15Vdc          | 13.3A          | 150mVpp.       | 90%    |
| VKG250-D600-S24 | 600           | 400-800     | 24Vdc          | 10.4A          | 200mVpp.       | 91%    |
| VKG300-D600-S48 | 600           | 400-800     | 48Vdc          | 6.25A          | 400mVpp.       | 92%    |
| VKG300-D600-S24 | 600           | 400-800     | 24Vdc          | 20.8A          | 200mVpp.       | 91%    |

### Drawings



**Input**

|                           |                                   |            |
|---------------------------|-----------------------------------|------------|
| Input Voltage Range       | 300Vdc                            | 200-400Vdc |
|                           | 600Vdc                            | 400-800Vdc |
| Input Reversal Protection | Built-in. Requires an input fuse. |            |

**Output**

|                         |          |
|-------------------------|----------|
| Voltage Accuracy        | ±1%      |
| Ripple and Noise        | <1%Vo    |
| Line Regulation         | ±0.2%    |
| Load Regulation         | ±0.4%    |
| Temperature Coefficient | ±0.01%/C |
| OCP Limit               | 120%     |
| Transient Response      | 200µs    |

**General Specifications**

|                      |              |                |
|----------------------|--------------|----------------|
| Switching Frequency  |              | 160-200KHz     |
| Isolation Resistance |              | 500M Ohms.     |
| MTBF                 |              | >200,000 hours |
| Isolation Voltage    |              |                |
|                      | Input-Output | 1000Vdc        |
|                      | Input-Case   | 1000Vdc        |
|                      | Output-Case  | 1000Vdc        |

**Environmental Specifications**

|                            |             |
|----------------------------|-------------|
| Working Temperature (case) | -25 ~ +80°C |
| Storage Temperature        | -45-+105°C  |
| Working Humidity           | 5% ~ 85°RH  |
| Storage Humidity           | 5% ~ 95°RH  |

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